



A.D. 1862, *1st MAY.* N° 1288.

S P E C I F I C A T I O N

OF

WILLIAM BICKFORD SMITH
AND
WILLIAM BENNETTS.

PREVENTING THE ESCAPE OF SMOKE AND
GASES FROM CHIMNEYS AND FURNACES.

LONDON:

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1862.



A.D. 1862, 1st MAY. N° 1288.

Preventing the Escape of Smoke and Gases from
Chimneys and Furnaces.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by William Bickford Smith and William Bennetts at the Office of the Commissioners of Patents, with their Petition, on the 1st May 1862.

We, WILLIAM BICKFORD SMITH, of Camborne, in the County of Cornwall, Merchant, and WILLIAM BENNETTS, of Tucking Mill, in the County of Cornwall, Engineer, do hereby declare the nature of the said Invention for
“IMPROVEMENTS IN THE METHOD OF AND APPARATUS FOR PREVENTING THE INJURIOUS EFFECTS OCCASIONED BY SMOKE, SULPHUR, AND THE DELETERIOUS GASES WHICH ESCAPE FROM STACKS, CHIMNEYS, CALCINING HOUSES, CHEMICAL AND OTHER FURNACES,” to be as follows:—

This Invention has for its object improvements in mechanism which prevents the liberation and diffusion of smoke and noxious gases by confining and preserving them so that they may be turned to valuable purposes. In order to effect this object the flue which is conducted from the back of the fire must be carried on to a small case in which is a blast fan, from whence the flue is continued to a chamber, or if need be, to a succession of chambers. When the blast fan is made to revolve rapidly it causes a draft in the flue which can be regulated as desired and which carries onward the smoke and the gases evolved during combustion, and the air which passes in to the fire and discharges them into a chamber or a succession of chambers where they

Smith & Bennetts' Improvements in Preventing the Escape of Smoke, &c.

are treated according to their nature, no air being allowed to escape but that which is harmless, and this is passed through a finely perforated metallic plate or through a sheet of canvass or such like material which is affixed to the outlet from the chamber into which they are discharged.

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